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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/628,932	07/29/2003		James C. Stebnicki	790063.94485	7510
26710	7590	08/06/2004		EXAMINER	
QUARLES 411 E. WISC			BOYKIN, TERRESSA M		
SUITE 2040				ART UNIT	PAPER NUMBER
MILWAUKEE, WI 53202-4497				1711	

DATE MAILED: 08/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/628,932	STEBNICKI ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Terressa M. Boykin	1711					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply within the set or extende	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONF	nely filed s will be considered timely. the mailing date of this communication. D (35 U S C & 133)					
Status								
1)[🖂	Responsive to communication(s) filed on 29 J	lulv 2003						
		s action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)	Claim(s) <u>1-53</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-53</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.						
Applicati	on Papers							
9) 🗌 🤄	The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>7-29-03</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
11) 🗌	Replacement drawing sheet(s) including the correc The oath or declaration is objected to by the E							
	ınder 35 U.S.C. § 119							
12) <u></u> a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureatee the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage					
Attachment	(s)							
	e of References Cited (PTO-892)	4) Interview Summary (						
3) 🔯 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 10/03;2/04	Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)					

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8,16-53 are rejected under 35 U.S.C. 102(b) as being anticipated by USP 6117176, Note abstract, cols. 1-10, claims 2, 5, 7, 9,10, figure 1 with regard to G, GM, M2, M3 and M4.; or US 2004/0028907 See tables 1-6, claims 43, 44,66, and 67, and pages 1-10.

Applicants' claims are directed to a molded article comprising a substrate comprising a thermoplastic alloy including a polyester and a polycarbonate; and a layer of a thermoplastic material disposed on at least a portion of the substrata, the thermoplastic material comprising a thermoplastic polyurethane.

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US 6117176 discloses crystal gels and articles formed from one or more block copolymers having at least one crystalline midblock and high levels of a plasticizer, wherein the midblock segment have an amount of crystallinity sufficient to achieve improvements in one or more physical properties including improved crack propagation resistance, improved tear resistance, improved resistance to fatigue and resistance to catastrophic failure not obtainable in amorphous gels.

The crystal gels can be made in combination with a selected amount of one or more selected polymers and copolymers (II) including thermoplastic crystalline polyurethane elastomers with hydrocarbon blocks, homopolymers, copolymers, block copolymers, polyethylene copolymers, polypropylene copolymers, and the like described below.

The crystal gels can optionally comprise selected major or minor amounts of one or more polymers or copolymers (II) provided the amounts and combinations are selected without substantially decreasing the desired properties. The polymers and copolymers can be linear, star-shaped (radial), branched, or multiarm; these including: (SBS) styrene-butadiene-styrene block copolymers, (SIS) styrene-isoprene-styrene block copolymers, low and medium viscosity (S-EB-S) styrene-ethylene-butylene-styrene block copolymers etc. See claim 2 of the reference.

The crystal gels can also be made into composites and then casted unto various substrates, such as open cell materials, metals, ceramics, glasses, and

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plastics, elastomers, such as polyamides, polyimides, polyesters and polycarbonates etc.

The crystal gel articles can be formed by blending, injection molding, extruding, spinning, casting, dipping and other conventional methods. For example, Shapes having various cross-section can be extruded. The crystal gels can also be formed directly into articles or remelted in any suitable hot melt applicator and extruded into shaped articles and films or spun into threads, strips, bands, yarns, or other shapes.

Note figure 1 with regard to G, GM, M2, M3 and M4.

US 2004/0028907 discloses weatherable multilayer articles comprising (i) a coating layer comprising a block copolyestercarbonate comprising structural units derived from at least one 1,3-dihydroxybenzene and at least one aromatic dicarboxylic acid, (ii) a second layer comprising a polymer comprising carbonate structural units, (iii) an adhesive layer comprising a polyurethane, and (iv) a substrate layer comprising at least one material selected from the group consisting of a thermoplastic resin, a cured thermoset resin, a metal, a ceramic, a glass, and a cellulosic material, wherein the coating layer is in contiguous superposed contact with the second layer, and the adhesive layer is in contiguous contact with the second layer and the substrate layer. Also disclosed is a method for making the multilayer article. See tables 1-6, claims 43, 44,66, and 67.

With regard to overmolding processing, the reference states that there may be employed such illustrative methods as molding, compression molding,

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thermoforming, co-injection molding, coextrusion, overmolding, multi-shot injection molding, sheet molding and placement of a film of the coating layer material on the surface of the second layer followed by adhesion of the two layers, typically in an injection molding apparatus; e.g., in-mold decoration. These operations may be conducted under art-recognized conditions.

Thus, each of the references disclose a molded article comprising the components as claimed by applicants. With regard to claims 35-53 there appears to be no distinguishable difference between the resulting structure of the composition and that of the "moldular chain link". The reactants, components, parameters and intended composition appears to be the same. Any properties or characteristics inherent in the prior art, although unobserved or detected by the reference, would still anticipate the claimed invention. There appears to be no significant difference between the reference(s) and that which is claimed by applicant(s). Any differences not specifically mentioned appear to be conventional. Consequently, the claimed invention cannot be deemed as novel and accordingly is unpatentable.

## 35 USC 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived

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by the manner in which the invention was made.

Claims 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 6117176.

With regard to applicants' claims 9-15 wherein the particular reactants to prepare the polycarbonate are disclosed, i.e. terephthalate and bisphenol A etc., note that such reactants for preparing a polycarbonate are exhaustedly well known in the art. Neither applicants' claims nor applicants' specification disclose or attribute any unobvious or unexpectant characteristic resulting from the use of these reactants, which would afford an unexpectant molding composition.

Further applicants have not set forth any particular process conditions that would afford an unexpectant polycarbonate or polyester prepared from these reactants. Nevertheless, these reactants are so exhaustedly known in the art it would be incomprehensible to distinguish these claims as allowable over the art by the mere presence of a well-known and expectant reactant.

Thus, the reference discloses a molded article prepared from the same components as claimed by applicants except for the mention of the particular reactants used to prepare the polycarbonate or polyester substrate disclosed herein.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the reactants such as found in applicants claims 9 -15 since such reactants are exhaustively well-known in the art to produce polycarbonates and polyesters and applicants claims nor the specification has set forth any unexpectant or unobvious characteristics

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resulting therefrom.

## <u>Correspondence</u>

Please note that the <u>cited U.S.</u> patents and patent application publications are available for download via the Office's PAIR. As an alternate source, <u>all U.S.</u> patents and patent application publications are available on the USPTO web site (<u>www.uspto.gov</u>), from the Office of Public Records and from commercial sources. Applicants may be referred to the Electronic Business Center (EBC) at <a href="http://www.uspto.gov/ebc/index.html">http://www.uspto.gov/ebc/index.html</a> or 1-866-217-9197.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Terressa Boykin whose telephone number is 571 272-1069. The examiner can normally be reached on Monday through Friday from 6:30am to 3:00pm. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The general information number for listings of personnel is ( 571-272-1700).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

tmb

Examiner Terressa Boykin

Primary Examiner

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